

WEST

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Terms	Documents
6078914.uref.	0

Database:

US Patents Full-Text Database

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JPO Abstracts Database

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	6078914.uref.	0	<u>L24</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	6078914.pn.	2	<u>L23</u>
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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	118 and multiple adj party or third adj party same search adj engines	35	<u>L21</u>
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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	118 and multiple adj party or third same party	9661	<u>L19</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	search adj engines	1707	<u>L18</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	meta adj search adj engines	9	<u>L17</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	17 and 19 and meta same information	0	<u>L16</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	16 and 19 and meta same information	0	<u>L15</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	15 and 19 and meta same information	0	<u>L14</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	14 and 19 and meta same information	0	<u>L13</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and 19 and meta same information	3	<u>L12</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	12 and 19 and meta same information	1	<u>L11</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	19 and meta same information	3	<u>L10</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	18 and multiple same party	26	<u>L9</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	13 and search same engines	824	<u>L8</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((348/\$)!.CCLS.))	39811	<u>L7</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((345/\$)!.CCLS.))	43328	<u>L6</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((705/\$)!.CCLS.))	8699	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((709/\$)!.CCLS.))	11498	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((707/\$)!.CCLS.))	11213	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((707/5)!.CCLS.))	616	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((707/3)!.CCLS.)	1311	<u>L1</u>

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Terms	Documents
18 and multiple same party	26

Database:

☐ US Patents Full-Text Database
☐ US Pre-Grant Publication Full-Text Database
☐ JPO Abstracts Database
☐ EPO Abstracts Database
☐ Derwent World Patents Index
☐ IBM Technical Disclosure Bulletins

18 and multiple same party

Refine Search:[Clear](#)**Search History****Today's Date: 8/8/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	18 and multiple same party	26	<u>L9</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	13 and search same engines	824	<u>L8</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((348/\$)!.CCLS.))	39811	<u>L7</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((345/\$)!.CCLS.))	43328	<u>L6</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((705/\$)!.CCLS.))	8699	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((709/\$)!.CCLS.))	11498	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((707/\$)!.CCLS.))	11213	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((707/5)!.CCLS.))	616	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((707/3)!.CCLS.))	1311	<u>L1</u>

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L21: Entry 1 of 35

File: USPT

Jun 26, 2001

US-PAT-NO: 6253208

DOCUMENT-IDENTIFIER: US 6253208 B1

TITLE: Information access

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wittgreffe; John P.	Ipswich	N/A	N/A	GBX
Zaiour; Habib	London	N/A	N/A	GBX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
British Telecommunications public limited company	London	N/A	N/A	GBX		03

APPL-NO: 9/ 052002

DATE FILED: March 31, 1998

INT-CL: [7] G06F 17/30

US-CL-ISSUED: 707/104, 707/10, 707/100, 707/103, 707/104, 707/501, 707/513, 705/14, 705/20, 705/26, 709/203, 709/217, 709/219, 380/24, 380/25

US-CL-CURRENT: 705/14, 705/20, 705/26, 707/10, 707/100, 707/513, 709/203, 709/217, 709/219

FIELD-OF-SEARCH: 707/3, 707/4, 707/5, 707/10, 707/100, 707/103, 707/104, 707/501, 707/513, 707/524, 705/14, 705/20, 705/23, 705/26, 705/27, 709/203, 709/217, 709/219, 382/224, 380/24-25

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>5625711</u>	April 1997	Nicholson et al.	382/224
<input type="checkbox"/> <u>5764906</u>	June 1998	Edelstein et al.	709/203
<input type="checkbox"/> <u>5778368</u>	July 1998	Hogan et al.	707/10
<input type="checkbox"/> <u>5850446</u>	December 1998	Berger et al.	380/24
<input type="checkbox"/> <u>5859972</u>	January 1999	Subramaniam et al.	395/200.33
<input type="checkbox"/> <u>5889863</u>	March 1999	Weber	380/25
<input type="checkbox"/> <u>5897622</u>	April 1999	Blinn et al.	705/26
<input type="checkbox"/> <u>5913210</u>	June 1999	Call	707/4
<input type="checkbox"/> <u>5933822</u>	August 1999	Braden-Harder et al.	707/5
<input type="checkbox"/> <u>5941944</u>	August 1999	Messerly	709/203
<input type="checkbox"/> <u>5996076</u>	November 1999	Rowney et al.	713/201
<input type="checkbox"/> <u>6009442</u>	December 1999	Chen et al.	707/522
<input type="checkbox"/> <u>6178409</u>	January 2001	Weber et al.	705/79

OTHER PUBLICATIONS

Bara. M. et al., "Symmetric adaptive customer, modeling in an electronic store", Third IEEE Symposium on Computers and Communications, 1998. ISCC '98 Proceedings., Jun. 3-Jul. 2, 1998, pp. 348-352.*

Douglis, Fred et al., "WebGuide: Querying and Navigating changes in Web Repositories", Fifth International World Wide Web Conference, May 6-10, 1996, paris, France.*

Srinivasan, Raghav et al., "Maintaining Temporal Coherency of Virtual Data Warehouses", The 19th IEEE Real-Time Systems Symposium, 1998 Proceedings, Dec. 2-4, 1998, pp. 60-70.

ART-UNIT: 212

PRIMARY-EXAMINER: Alam; Hosain T.

ASSISTANT-EXAMINER: Alam; Shahid

ATTY-AGENT-FIRM: Nixon & Vanderhye P.C.

ABSTRACT:

An information access system is provided to create and maintain a rapidly accessible index to information extracted from information sources accessible over the Internet. The information access system may be tailored to extract, analyse and index information obtained via the public query interfaces to a number of predetermined information databases. Information may be extracted from the information databases by submitting appropriate query requests to their query interfaces and analysing data returned in response. Query requests may be stored and maintained by the information access system in query files. Query responses may be analysed by one or more query result analysis modules, each module being tailored to convert information supplied by a particular site into a common format for storage in an index. New information may be identified and reported to users. The information access system may be applied, in particular to commercial property trading.

20 Claims, 3 Drawing figures

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L21: Entry 3 of 35

File: USPT

Jun 5, 2001

US-PAT-NO: 6243750

DOCUMENT-IDENTIFIER: US 6243750 B1

TITLE: Method and system for measuring Web site access requests

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Verma; Dinesh Chandra	Millwood	NY	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY	N/A	N/A	02	

APPL-NO: 9/ 048773

DATE FILED: March 26, 1998

INT-CL: [7] G06F 13/00

US-CL-ISSUED: 709/224; 709/203

US-CL-CURRENT: 709/224; 709/203

FIELD-OF-SEARCH: 709/217, 709/203, 709/219, 709/234, 709/229, 709/226, 709/218, 709/224, 707/5, 707/10, 707/7, 395/427, 705/14, 340/825.44, 345/333, 342/44, 711/209, 235/375

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4752675</u>	June 1988	Zetmeir	235/375
<input type="checkbox"/>	<u>5446862</u>	August 1995	Ohkami	395/427
<input type="checkbox"/>	<u>5649142</u>	July 1997	Lavelle et al.	711/209
<input type="checkbox"/>	<u>5793972</u>	August 1998	Shane	709/219
<input type="checkbox"/>	<u>5812776</u>	September 1998	Gifford	709/217
<input type="checkbox"/>	<u>5870550</u>	February 1999	Wesinger, Jr. et al.	709/218
<input type="checkbox"/>	<u>5884038</u>	March 1999	Kapoor	709/226
<input type="checkbox"/>	<u>5898833</u>	April 1999	Kidder	709/234
<input type="checkbox"/>	<u>5929801</u>	July 1999	Aslanidis et al.	342/44
<input type="checkbox"/>	<u>5933811</u>	August 1999	ANgles et al.	705/14
<input type="checkbox"/>	<u>5933827</u>	August 1999	Cole et al.	707/10
<input type="checkbox"/>	<u>5935207</u>	August 1999	Logue et al.	709/219
<input type="checkbox"/>	<u>5943670</u>	August 1999	Prager	707/5
<input type="checkbox"/>	<u>5948061</u>	September 1999	Merriman et al.	709/219
<input type="checkbox"/>	<u>5959623</u>	September 1999	Van Hoff et al.	345/333
<input type="checkbox"/>	<u>5960409</u>	September 1999	Wexler	705/14
<input type="checkbox"/>	<u>5961603</u>	October 1999	Kunkel et al.	709/229
<input type="checkbox"/>	<u>5995965</u>	November 1999	Experton	707/10
<input type="checkbox"/>	<u>5999912</u>	December 1999	Wodarz et al.	705/14
<input type="checkbox"/>	<u>5999929</u>	December 1999	Goodman	707/7
<input type="checkbox"/>	<u>6009410</u>	December 1999	LeMole et al.	705/14
<input type="checkbox"/>	<u>6016107</u>	January 2000	Kampe et al.	340/825.44

ART-UNIT: 212

PRIMARY-EXAMINER: Harrell; Robert B.

ASSISTANT-EXAMINER: Vu; Thong

ATTY-AGENT-FIRM: Fleit, Kain, Gibbons, Gutman & Bongini P.L. Gibbons; Jon A. August; Casey P.

ABSTRACT:

A method and apparatus for determining a referring entity for an access request for a node in a network comprises a plurality of nodes, wherein each node is identified by a unique address and each node comprises the capability for including sub-addresses. The method comprises the steps of: receiving a request for an address in the network, the request including a request for a sub-address within the node identified by the address; removing the sub-address from the request; comparing the sub-address received with a list of sub-addresses, each corresponding to a referring entity; and determining the referring entity corresponding to the request for an address based on the comparison.

27 Claims, 8 Drawing figures

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L21: Entry 10 of 35

File: USPT

Dec 19, 2000

US-PAT-NO: 6163778

DOCUMENT-IDENTIFIER: US 6163778 A

TITLE: Probabilistic web link viability marker and web page ratings

DATE-ISSUED: December 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fogg; BJ	Stanford	CA	N/A	N/A
Nielsen; Jakob	Atherton	CA	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Sun Microsystems, Inc.	Palo Alto	CA	N/A	N/A	02

APPL-NO: 9/ 019797

DATE FILED: February 6, 1998

INT-CL: [7] G06F 17/30

US-CL-ISSUED: 707/10; 707/3

US-CL-CURRENT: 707/10; 707/3

FIELD-OF-SEARCH: 707/3, 707/4, 707/10, 707/500, 707/513, 707/514, 709/224

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

☐ Search Selected☐ Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5530856</u>	June 1996	Dahod et al.	395/600
<input type="checkbox"/>	<u>5835905</u>	November 1998	Pirolli et al.	707/3
<input type="checkbox"/>	<u>5870557</u>	February 1999	Bellovin et al.	395/200.54
<input type="checkbox"/>	<u>5870559</u>	February 1999	Leshem et al.	709/224
<input type="checkbox"/>	<u>5937165</u>	August 1999	Schwaller et al.	709/224
<input type="checkbox"/>	<u>5968125</u>	October 1999	Garrick et al.	709/224

OTHER PUBLICATIONS

David C Blight, "Annotated Reference List Agents," 1997 Conference on Communications, Power and Computing, WESCANEX '97 Proceedings, May 1997, pp. 7-12.

Neil Bowers, "Webtint=Quality Assurance for the World-Wide Web," May 1996, 11 pages at .

Rick Hower, "Beyond Broken Links," Internet-Systems, Jul. 1997, 6 pages at .

"Web Site Garage," Tuneup FAQ, 6 pages, date unknown, at , date unknown.

James E Pitton et al., "Supporting the Web=A Distributed Hyperlink Database System," 5th International World Wide Web Conference, May 1996.

May 6-10, 1996, pp. 1-15, at .

ART-UNIT: 277

PRIMARY-EXAMINER: Kulik; Paul V.

ATTY-AGENT-FIRM: McDermott, Will & Emery

ABSTRACT:

Hypertext information links are typically contained in documents accessible by networks. Data is gathered regarding the results of attempted access to documents identified by these links. The link's viability is calculated based on the number of successful attempts resulting in successful access in order to provide a measure of link viability. The display of the document is altered based on the measure of link viability. An average of link viability for all links on the document, and on the site, is used to calculate document viability and site viability which can be used to rate the document and site, respectively. These viability measures are displayed along with the corresponding link, document, and site. Display of results retrieved by conventional search engines may be sorted based on link, document or site viability, and displayed accordingly. Links contained in bookmark lists are also measured for viability to cull out bookmarks with low link viability to, or low document viability of, the bookmarked document. Viability calculations may be made by a user computer device, an Internet Service Provider, a third party service, and/or a server on which a document resides.

39 Claims, 18 Drawing figures

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L21: Entry 18 of 35

File: USPT

Jan 4, 2000

US-PAT-NO: 6012053

DOCUMENT-IDENTIFIER: US 6012053 A

TITLE: Computer system with user-controlled relevance ranking of search results

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pant; Sangam	Winchester	MA	N/A	N/A
Andre; David L.	Belmont	MA	N/A	N/A
Watson; Gray	Pittsburgh	PA	N/A	N/A
Green; Richard M.	Pittsburgh	PA	N/A	N/A
Schiegg; Michael J.	McKeesport	PA	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Lycos, Inc.	Waltham	MA	N/A	N/A	02

APPL-NO: 8/ 880923

DATE FILED: June 23, 1997

INT-CL: [6] G06F 17/30

US-CL-ISSUED: 707/3; 707/4, 707/5, 707/6, 364/133, 364/222, 345/333, 345/968

US-CL-CURRENT: 707/3; 345/866, 345/968, 700/4, 707/4, 707/5, 707/6

FIELD-OF-SEARCH: 707/3, 707/4, 707/5, 707/6, 707/7, 707/102, 707/103, 707/104, 707/203, 364/920, 364/6, 364/222, 364/133, 340/146, 395/185, 455/4, 455/2, 348/2, 348/7, 348/10, 348/12, 345/333, 345/968, 345/978, 345/335, 382/167

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

<input type="checkbox"/>	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5321833</u>	June 1994	Cheng et al	395/600
<input type="checkbox"/>	<u>5500920</u>	March 1996	Kupiec	707/4
<input type="checkbox"/>	<u>5544049</u>	August 1996	Henderson et al.	707/4
<input type="checkbox"/>	<u>5577241</u>	November 1996	Spencer	707/5
<input type="checkbox"/>	<u>5644686</u>	July 1997	Hekmatpour	706/45
<input type="checkbox"/>	<u>5675819</u>	October 1997	Schuetze	707/3
<input type="checkbox"/>	<u>5696962</u>	December 1997	Kupiec	707/3
<input type="checkbox"/>	<u>5754938</u>	May 1998	Herz et al.	707/3
<input type="checkbox"/>	<u>5819004</u>	October 1998	Azadegan et al.	386/112
<input type="checkbox"/>	<u>5832496</u>	November 1998	Anand et al.	707/102
<input type="checkbox"/>	<u>5890152</u>	March 1999	Rapaport et al.	707/6
<input type="checkbox"/>	<u>5899999</u>	May 1999	De Bonet	707/104

ART-UNIT: 271

PRIMARY-EXAMINER: Lintz; Paul R.

ASSISTANT-EXAMINER: Havan; Thu-Thao

ATTY-AGENT-FIRM: Wolf, Greenfield & Sacks, P.C.

ABSTRACT:

A computer system for performing searches on a collection of information includes a mechanism through which results from a search query are ranked according to user specified relevance factors to allow the user to control how the search results are presented. The relevance factors are applied to the results achieved for each query. That is, each item returned by the search has a set of attributes. Each of these attributes is assigned a weight according to the specified relevance factors. These weights are combined to provide a score for the item. Search results are provided to the user, ordered according to scores. The application of the relevance factors does not alter the query performed on the collection of information.

12 Claims, 9 Drawing figures

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L21: Entry 11 of 35

File: USPT

Nov 21, 2000

US-PAT-NO: 6151624

DOCUMENT-IDENTIFIER: US 6151624 A

TITLE: Navigating network resources based on metadata

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Teare; Keith	Palo Alto	CA	N/A	N/A
Popp; Nicolas	Menlo Park	CA	N/A	N/A
Ong; Bruce	San Francisco	CA	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
RealNames Corporation	Palo Alto	CA	N/A	N/A	02

APPL-NO: 9/ 017817

DATE FILED: February 3, 1998

INT-CL: [7] G06F 13/14

US-CL-ISSUED: 709/217; 707/5, 707/522

US-CL-CURRENT: 709/217; 707/5, 707/522

FIELD-OF-SEARCH: 707/502, 707/1, 707/3, 707/4, 707/5, 707/104, 709/217, 709/218, 709/202, 709/203, 709/219

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 4677588	June 1987	Benjamin et al.	364/900
<input type="checkbox"/> 4718005	January 1988	Feigenbaum et al.	364/200
<input type="checkbox"/> 4914571	April 1990	Baratz et al.	364/200
<input type="checkbox"/> 5282244	January 1994	Fuller et al.	379/230
<input type="checkbox"/> 5388213	February 1995	Oppenheimer et al.	395/200
<input type="checkbox"/> 5410691	April 1995	Taylor	395/600
<input type="checkbox"/> 5412714	May 1995	Bogart et al.	379/221
<input type="checkbox"/> 5434974	July 1995	Loucks et al.	395/200
<input type="checkbox"/> 5475819	December 1995	Miller et al.	395/200.03
<input type="checkbox"/> 5548722	August 1996	Jalalian et al.	395/200.1
<input type="checkbox"/> 5586257	December 1996	Perlman	463/42
<input type="checkbox"/> 5727129	March 1998	Barrett et al.	395/12
<input type="checkbox"/> 5729682	March 1998	Marquis et al.	395/200.12
<input type="checkbox"/> 5740422	April 1998	Foltz et al.	395/609
<input type="checkbox"/> 5751961	May 1998	Smyk	395/200.47
<input type="checkbox"/> 5764906	June 1998	Edelstein et al.	395/200.49

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
WO97/19564	May 1997	WOX	
WO97/32251	September 1997	WOX	

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Juan M. Andrade, Mark T. Carges, M. Randall MacBlane, "Open On-line Transaction Processing with the TUXEDO System," IEEE, pp. 366-371, Feb., 1992.

Daniel LaLiberte, Michael Shapiro, Internet-Draft, "The Path URN Specification," <http://www.hypernews.org/.about.liberte/www/path.html>, "expiration date" Jan. 1, 1996.

Ralph E. Droms, "Access to Heterogeneous Directory Services," IEEE, pp. 1054-1061, Jun., 1990.

Michael Hitchens, John Rosenberg, "Bindings between Names and Objects in a Persistent System," IEEE, pp. 26-37, Sep., 1992.

Laurence W. Lannom, Defense Virtual Library, <http://www.cnri.reston.va.us/dtic.html>, "creation date" Sep. 8, 1997.

The International DOI Foundation, "The Digital Object Identifier (DOI) System," <http://www.doi.org/index.html> and <http://www.doi.org/syntax.html>, "last revision date" Sep. 22, 1998, retrieval.

Edward Slottow, "Engineering a Global Resolution Service," <http://ana-www.lcs.mit.edu/anaweb/html-papers/edward-MEng/proposal.html>, "creation date" Nov. 26, 1996.

CNRI Presents Grail, "Grail Home Page," <http://grail.cnri.reston.va.us/grail/>.

Mark S. Squillante, David Notkin, "Integrating Heterogeneous Local Mail Systems," IEEE, pp. 59-67, Nov., 1989.

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Persistent URL Home Page, <http://purl.oclc.org>.
Stuart Weibel, Erik Jul, Keith Shafer, "PURLs: Persistent Uniform Resource Locators," <http://purl.oclc.org/OCLC/PURL/Summary>, "creation date" Nov./Dec., 1995.
Tonya Beeton, "National Library Announces a PURL of a Service," <http://www.nla.gov.au/pressurel/purll.html>, "last revision date" Jan. 29, 1998.
"PURL-PC Webopaedia Definition and Links," <http://webopedia.internet.com/TERM/P/PURL.html>, "last revision date" Aug. 4, 1998.
"URL Integrity," <http://sunsite.berkeley.edu/.about.emorgan/waves/urlintegrity.html>, "last revision date" Feb. 19, 1998.
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ART-UNIT: 277

PRIMARY-EXAMINER: Dinh; Dung C.

ATTY-AGENT-FIRM: Hickman Palermo Troung & Becker LLP Palermo; Christopher J.

ABSTRACT:

Mechanisms for associating metadata with network resources, and for locating the network resources in a language-independent manner, are disclosed. Owners of network resources define metadata that describes each network resource. The metadata may include a natural language name of the network resource, its location, its language, its region or intended audience, and other descriptive information. The owners register the metadata in a registry. A copy of the metadata is stored on a server associated with a group of the network resources. A copy of the metadata is stored in a registry that is indexed at a central location. A crawler service periodically updates the registry by polling the information on each server associated with registered metadata. To locate a selected network resource, a client provides the name of the network resource to a resolver process. The resolver process provides to the client the network resource location corresponding to the network resource name. Multiple metadata mappings can be established for the same network resource, in which each mapping stores a name expressed in a different natural language. Accordingly, network resources can be located merely by providing the name of the network resource in any natural language that is convenient for the client.

WEST☐ **Generate Collection**

L21: Entry 21 of 35

File: USPT

Nov 16, 1999

US-PAT-NO: 5987446

DOCUMENT-IDENTIFIER: US 5987446 A

TITLE: Searching large collections of text using multiple search engines concurrently

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Corey; Douglas A.	Boulder	CO	N/A	N/A
Landauer; Thomas K.	Boulder	CO	N/A	N/A
Lochbaum; Karen E.	Boulder	CO	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
U.S. West, Inc.	Denver	CO	N/A	N/A	02
MediaOne Group, Inc.	Englewood	CO	N/A	N/A	02

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US-CL-CURRENT: 707/3; 707/5

FIELD-OF-SEARCH: 707/4, 707/5, 707/1, 707/3

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4839853</u>	June 1989	Deerwester et al.	364/900
<input type="checkbox"/>	<u>5301109</u>	April 1994	Landauer	364/419.19
<input type="checkbox"/>	<u>5619709</u>	April 1997	Caid et al.	395/794
<input type="checkbox"/>	<u>5642502</u>	June 1997	Driscoll	707/5

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ART-UNIT: 277

PRIMARY-EXAMINER: Choules; Jack M.

ATTY-AGENT-FIRM: Holme Robe & Owen LLP

ABSTRACT:

An information retrieval system is disclosed, wherein the system includes a plurality of text search engines based on substantially different computational searching techniques. By activating each search engine with input from a user information request, the output from each of the search engines is combined into a single list of information items. A ranking process ranks the information items in the combined list by utilizing information item ordering data also received from each of the search engines as to the relevance of the information items output by the search engine to the user's request. Thus, by providing higher rankings to those information items determined to be most relevant to the user's request by each of (or a majority of) the search engines, these information items have been found to be highly consistent in satisfying the user's request for information.

29 Claims, 11 Drawing figures

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